

ABSTRACT OF THE DISCLOSURE

Apparatus connected to the downhole end of a tubing string for cleaning and flushing wells has a threaded connection to the string and at least one primary jet to direct circulating gases toward the downhole end of the well, together with a plurality of secondary jets which are arranged around the exterior of the tubular member and directed upwardly at an acute angle with respect to the longitudinal axis of the tubular member and skewed radially at an acute angle with respect to the surface of the tubular member the skew angle being opposed to the thread angle so as to tend to tighten the threaded connection and the upwardly directed gas volume being approximately one and one-half to four times that which is directed toward the downhole end of the well.